



FCC - TEST REPORT

Report Number : **709502506326-00B** Date of Issue: August 27, 2025

Model : IPC-S2XEP-6M0S, IPC-S2XEN-6M0S, IPC-S2XEP-8M0S,
IPC-S2XEN-8M0S, IPC-S2XEP-10M0S, IPC-S2XEN-10M0S,
IPC-S2XEP-6M0S-imou, IPC-S2XEN-6M0S-imou,
IPC-S2XEP-6M0S-V-imou, IPC-S2XEP-8M0S-imou,
IPC-S2XEN-8M0S-imou, IPC-S2XEP-8M0S-V-imou,
IPC-S2XEP-10M0S-imou, IPC-S2XEN-10M0S-imou,
IPC-S2XEP-10M0S-V-imou

Product Type : Consumer Camera

Applicant : Hangzhou Huacheng Software Technology Co., Ltd.

Address : 15th Floor, Building 3, No. 582, Liye Road, Changhe Street, Binjiang District, Hangzhou, China

Manufacturer : Hangzhou Huacheng Software Technology Co., Ltd.

Address : 15th Floor, Building 3, No. 582, Liye Road, Changhe Street, Binjiang District, Hangzhou, China

Test Result : ☒ Positive ☐ Negative

Total pages including Appendices : 115



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2 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
709502506326-00B	First Issue	08/27/2025

3 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
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FCC Registration No.: 820234

FCC Designation Number: CN1183

ISED CAB identifier CN0101

IC Registration No.: 31668



4 Description of the Equipment under Test

Product:	Consumer Camera
Model no.:	IPC-S2XEP-6M0S, IPC-S2XEN-6M0S, IPC-S2XEP-8M0S, IPC-S2XEN-8M0S, IPC-S2XEP-10M0S, IPC-S2XEN-10M0S, IPC-S2XEP-6M0S-imou, IPC-S2XEN-6M0S-imou, IPC-S2XEP-6M0S-V-imou, IPC-S2XEP-8M0S-imou, IPC-S2XEN-8M0S-imou, IPC-S2XEP-8M0S-V-imou, IPC-S2XEP-10M0S-imou, IPC-S2XEN-10M0S-imou, IPC-S2XEP-10M0S-V-imou
FCC ID:	2BQWU-S2XEXXM0S
Options and accessories:	NA
Rating:	100~240V, 50/60Hz
RF Transmission Frequency:	For 2.4G Wi-Fi: 802.11b/g/n-HT20/ax-HE20: 2412~2462 MHz 802.11n-HT40/ax-HE40: 2422~2452 MHz For 5G Wi-Fi: 802.11a/n-HT20/ax-HE20/ac-VHT20: 5180~5240 MHz (U-NII-1) 802.11n-HT40/ax-HE40/ac-VHT40: 5190~5230 MHz (U-NII-1) 802.11a/n-HT20/ax-HE20/ac-VHT20: 5745~5825 MHz (U-NII-3) 802.11n-HT40/ax-HE40/ac-VHT40: 5755~5795 MHz (U-NII-3)
No. of Operated Channel:	For 2.4G Wi-Fi: 11 for 802.11b/802.11g/802.11n(H20)/802.11ax(HE20) 7 for 802.11n(HT20)/ 802.11ax(HE40) For 5G Wi-Fi: U-NII-1: 4 for 802.11a/n-HT20/ax-HE20/ac-VHT20 2 for 802.11n-HT40/ax-HE40/ac-VHT40 U-NII-3: 5 for 802.11a/n-HT20/ax-HE20/ac-VHT20 2 for 802.11n-HT40/ax-HE40/ac-VHT40
Modulation:	For 2.4G Wi-Fi: Direct Sequence Spread Spectrum (DSSS) for 802.11b Orthogonal Frequency Division Multiplexing (OFDM) for 802.11g/n Orthogonal Frequency-Division Multiple Access (OFDMA) for 802.11ax



For 5G Wi-Fi:

Orthogonal Frequency Division Multiplexing (OFDM) for 802.11a/n/ac
Orthogonal Frequency-Division Multiple Access (OFDMA) for 802.11ax

Hardware Version: V1.0

Software Version: V3.001.0000000.4.R.250514

Data speed:

- 11b 1-11Mbps
- 11g 6-54Mbps
- 11n(HT20) 6.5-72.2Mbps
- 11n(HT40) 13.5-150Mbps
- 11ac(VHT20) 6.5 ~ 86.7Mbps
- 11ac(VHT40) 13.5 ~ 200Mbps
- 11ax(HE20) 7.313 ~ 143.382Mbps
- 11ax(HE40) 14.625 ~ 286.765Mbps

Channel list:

For 2.4G Wi-Fi:

802.11b/g/n(HT20)/ax(HT20)			
Ch	Fre(MHz)	Ch	Fre(MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

802.11n(HT40)/ax(HT40)			
Ch	Fre(MHz)	Ch	Fre(MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437		

For 5G Wi-Fi:

Band (GHz)	Operating Channel Number	Channel center frequencies for 20MHz bandwidth (MHz)
5.15GHz~5.25GHz	36	5180
	40	5200
	44	5220
	48	5240
5.725GHz~5.825GHz	149	5745
	153	5765
	157	5785
	161	5805
	165	5825

Band (GHz)	Operating Channel Number	Channel center frequencies for 40MHz bandwidth (MHz)
------------	--------------------------	--



5.15GHz~5.25GHz	38	5190
	46	5230
5.725GHz~5.825GHz	151	5755
	159	5795

Antenna Type: PIFA antenna

Antenna Gain: For 2.4G Wi-Fi: 1.29 dBi
For 5G Wi-Fi: 2.86 dBi

Description of the EUT: The Equipment Under Test (EUT) is a Consumer Camera with Wi-Fi Module. The EUT support Wi-Fi operated at 2.4GHz and 5GHz.

Test sample no.: SHA-940006-3 (Radiated sample)
SHA-940006-2 (Conducted sample)

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.



5 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2024 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10-2020.



6 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C						
Test Condition		Pages	Test Site	Test Result		
				Pass	Fail	N/A
§15.207	Conducted emission AC power port	15-17	Site 1	☒	☐	☐
§15.247 (b) (3)	Conducted peak output power	18-19	Site 1	☒	☐	☐
§15.247(a)(1)	20dB bandwidth and 99% Occupied Bandwidth	---	---	☐	☐	☒
§15.247(a)(1)	Carrier frequency separation	---	---	☐	☐	☒
§15.247(a)(1)(iii)	Number of hopping frequencies	---	---	☐	☐	☒
§15.247(a)(1)(iii)	Dwell Time - Average Time of Occupancy	---	---	☐	☐	☒
§15.247(a)(2)	6dB bandwidth and 99% Occupied Bandwidth	20-26	Site 1	☒	☐	☐
§15.247(e)	Power spectral density	27-34	Site 1	☒	☐	☐
§15.247(d)	Spurious RF conducted emissions	35-59	Site 1	☒	☐	☐
§15.247(d)	Band edge	60-68	Site 1	☒	☐	☐
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	69-110	Site 1	☒	☐	☐
§15.203	Antenna requirement	See note 1		☒	☐	☐

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a Dipole antenna, which gain is 1.29 dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the



intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi



7 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2BQWU-S2XEXXM0S, complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

This report is only for 2.4GHz Wi-Fi, for the 5GHz Wi-Fi test report please refer to 709502506326-00C.

According to the client's declaration, all the models have the same OS, Motherboard, wireless module components etc.; The main difference between them is the Hardware Resolution which does not impact the RF functionality.

So model IPC-S2XEN-8M0S was chosen to perform all the tests.

We tested it and listed the worst data in this report.

SUMMARY:

All tests according to the regulations cited on page 8 were

■ - Performed

□ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: August 6, 2025

Testing Start Date: August 6, 2025

Testing End Date: August 25, 2025

-TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:

Prepared by:

Tested by:



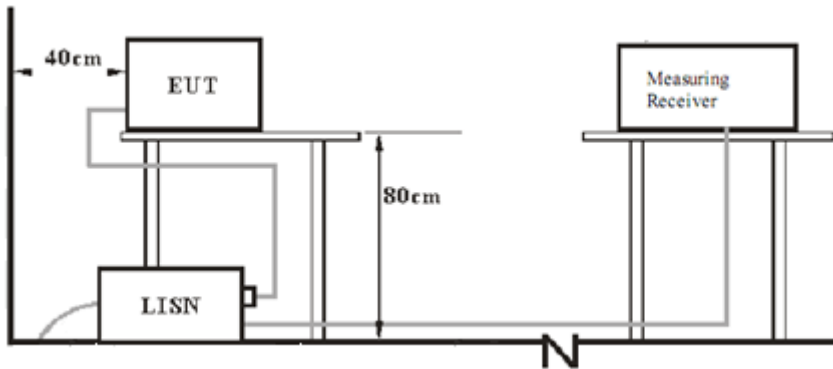
Hui TONG
Review Engineer

Wenqiang LU
Project Engineer

Doujun XU
Test Engineer

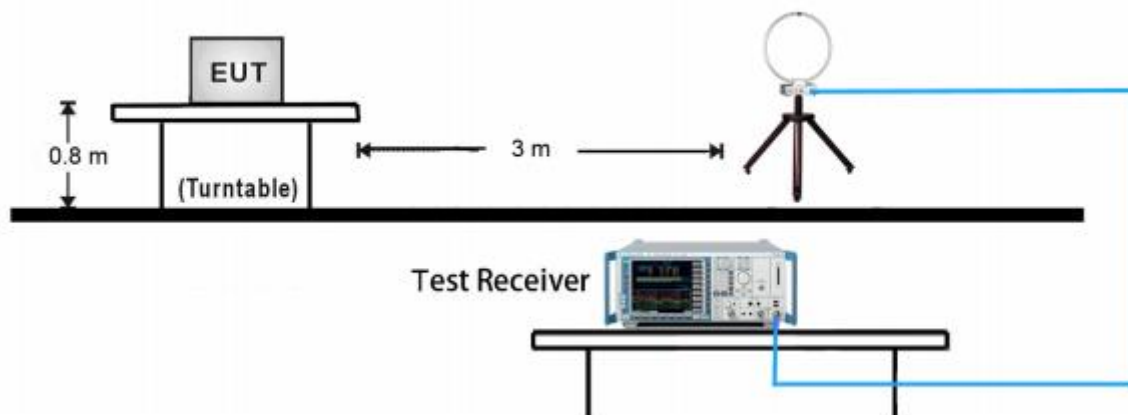
8 Test Setups

8.1 AC Power Line Conducted Emission test setups

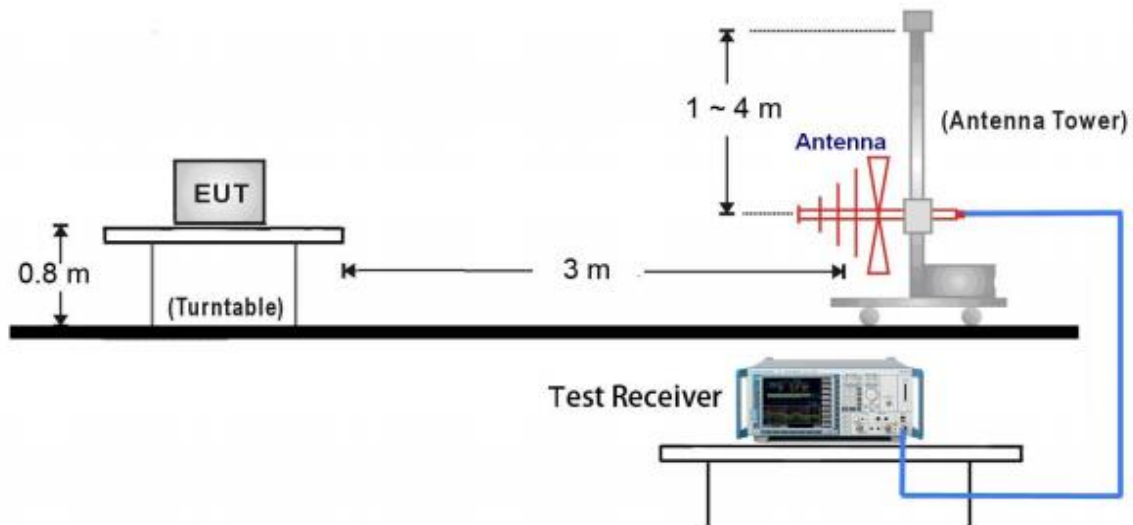


8.2 Radiated test setups

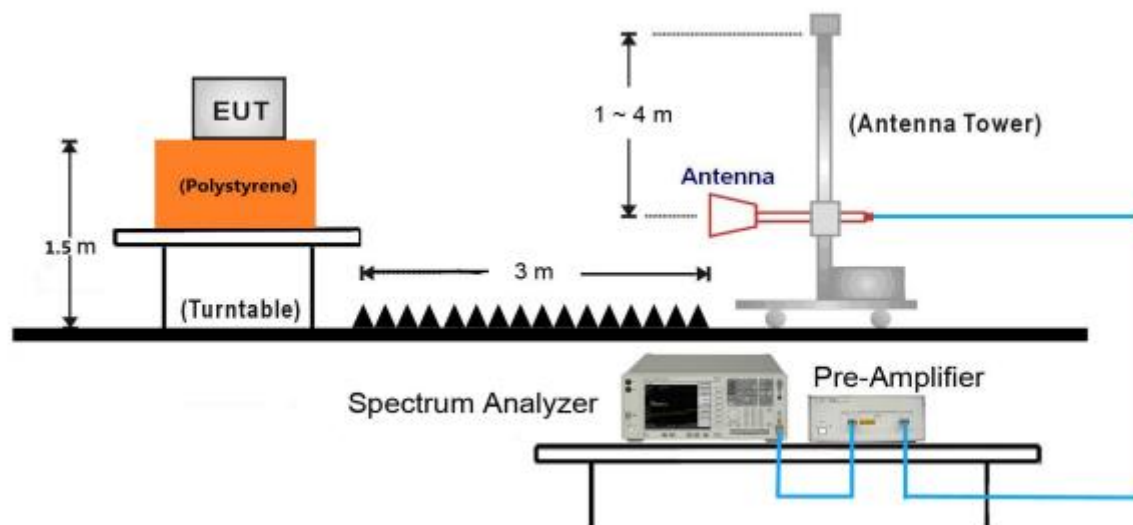
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:

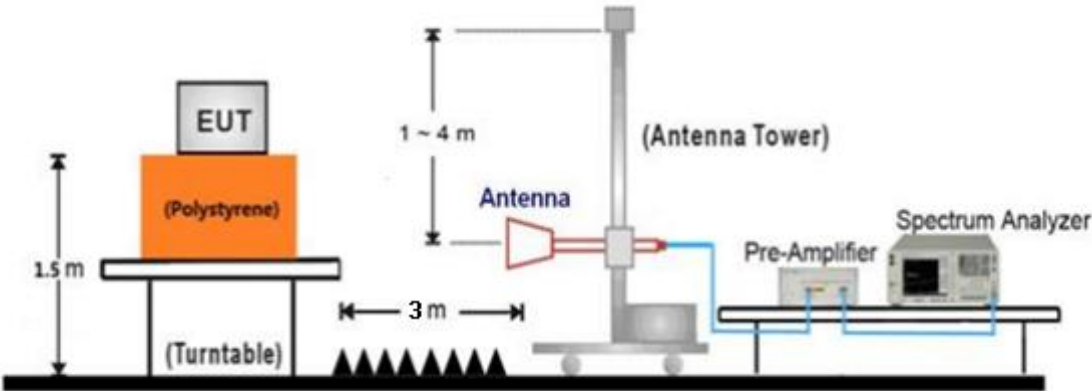


1GHz ~ 18GHz Test Setup:



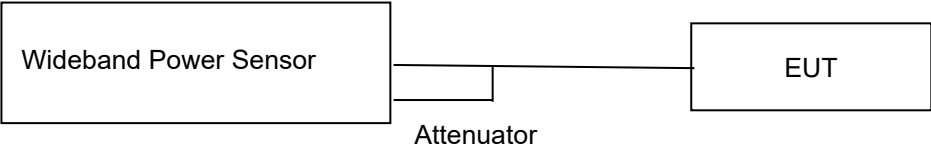


18GHz ~ 25GHz Test Setup:

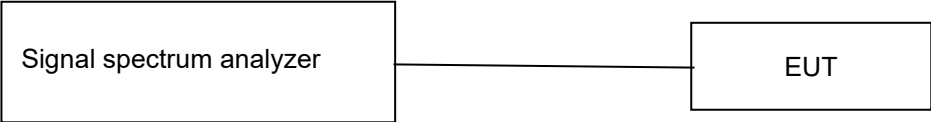


8.3 Conducted RF test setups

For Conducted peak output power



For other test items



9 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenove	E470	PF-OU5TS7 17/09

Test software: SecureCRT.exe, which used to control the EUT in continues transmitting mode.

The system was configured to 802.11b/g/n-HT20/ax-HE20 channel 1(2412MHz), 6(2437MHz), and 11(2462MHz) and 802.11n-HT40/ax-HE40 channel 3(2422MHz), 6(2437MHz), and 9(2452MHz).

Test Mode Applicability and Tested Channel Detail:

Mode	Tested Channel	Data Rate (Mbps)	Modulation	Index Value (Power level setting)
802.11b	1	1	CCK	default
	6	1	CCK	default
	11	1	CCK	default
802.11g	1	6	OFDM	default
	6	6	OFDM	default
	11	6	OFDM	default
802.11n HT20	1	MCS0 (6.5Mbps)	OFDM	default
	6	MCS0 (6.5Mbps)	OFDM	default
	11	MCS0 (6.5Mbps)	OFDM	default
802.11n HT40	3	MCS0 (13.5Mbps)	OFDM	default
	6	MCS0 (13.5Mbps)	OFDM	default
	9	MCS0 (13.5Mbps)	OFDM	default
802.11ax HT20	1	11ax 7.313Mbps	OFDMA	default
	6	11ax 7.313Mbps	OFDMA	default
	11	11ax 7.313Mbps	OFDMA	default
802.11ax HT40	3	11ax 14.625Mbps	OFDMA	default
	6	11ax 14.625Mbps	OFDMA	default
	9	11ax 14.625Mbps	OFDMA	default

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.



10 Technical Requirement

10.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. An EMI test receiver is used to test the emissions from both sides of AC line

Limit

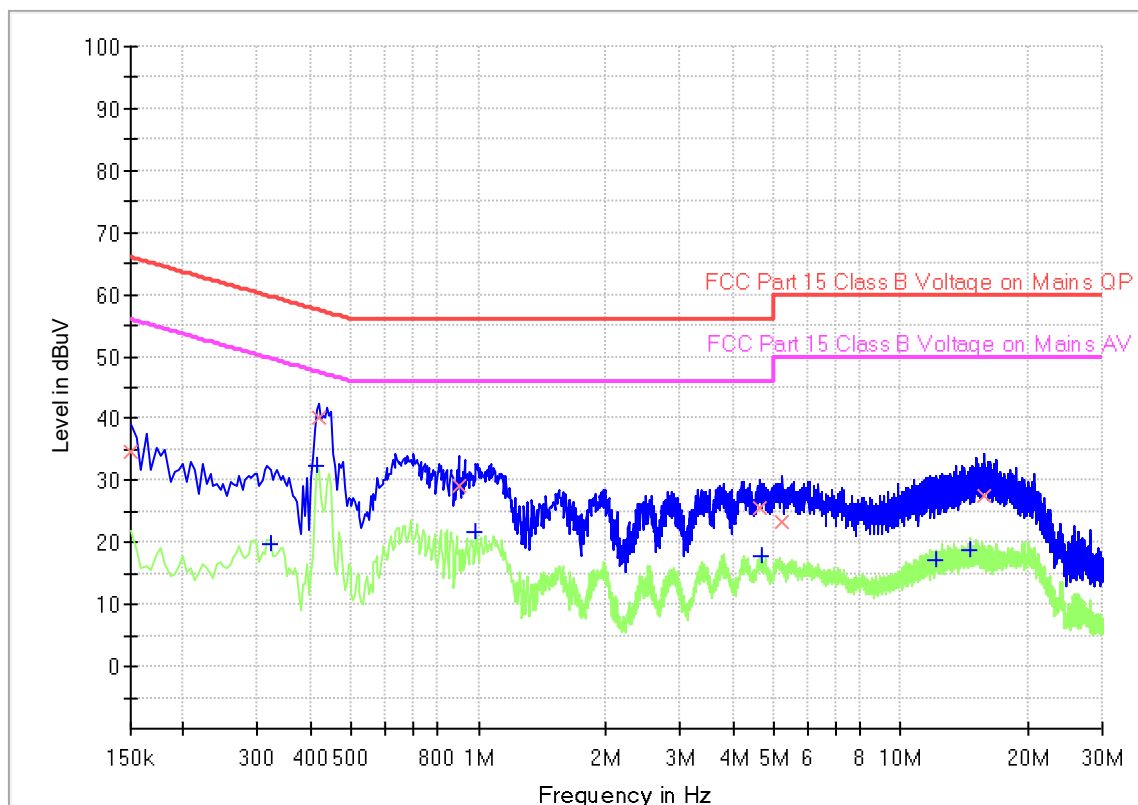
According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreasing linearly with logarithm of the frequency

Conducted Emission

Product Type : Consumer Camera
 M/N : IPC-S2XEN-8M0S
 Operating Condition : Transmit mode, 802.11g Tx_2412MHz (worst case)
 Test Specification : L-line
 Comment : 120V~, 60Hz

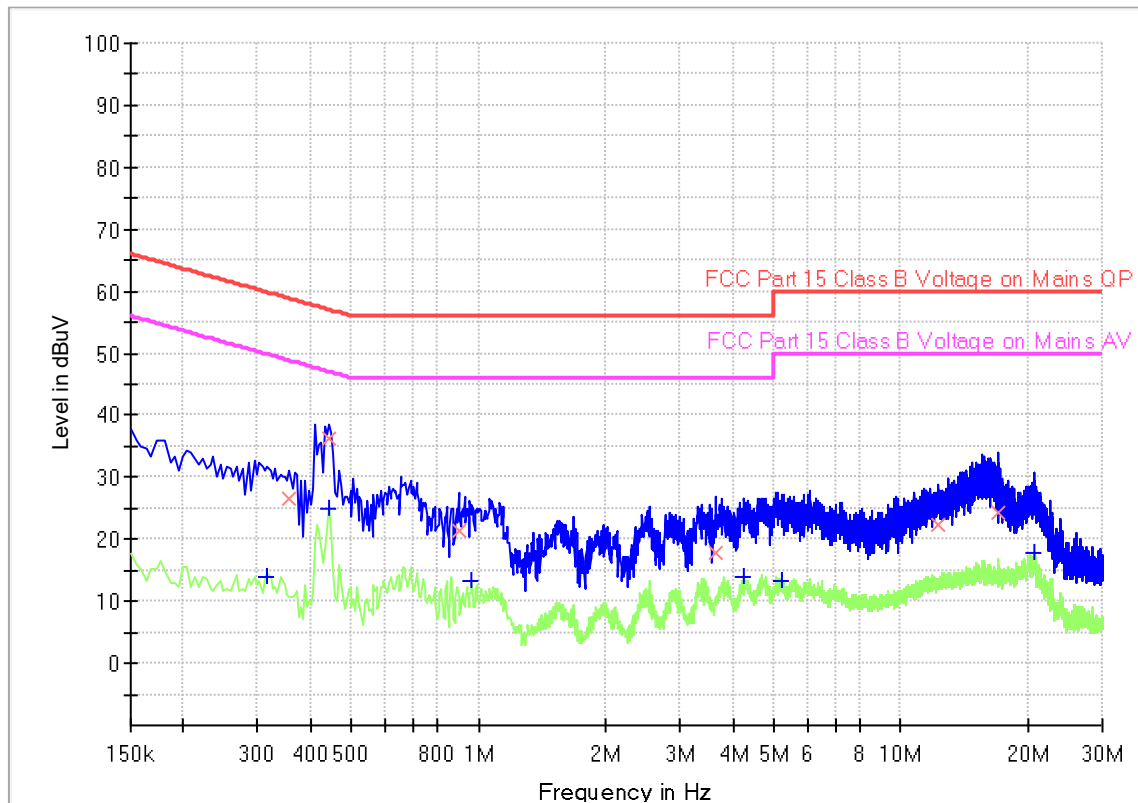


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	34.74	---	66.00	31.26	1000.0	9.000	L1	19.5
0.321000	---	19.82	49.68	29.86	1000.0	9.000	L1	19.4
0.415500	---	32.33	47.54	15.21	1000.0	9.000	L1	19.4
0.420000	40.08	---	57.45	17.37	1000.0	9.000	L1	19.4
0.897000	29.18	---	56.00	26.82	1000.0	9.000	L1	19.4
0.987000	---	21.64	46.00	24.36	1000.0	9.000	L1	19.4
4.636500	25.67	---	56.00	30.33	1000.0	9.000	L1	19.5
4.663500	---	17.95	46.00	28.05	1000.0	9.000	L1	19.5
5.248500	23.35	---	60.00	36.65	1000.0	9.000	L1	19.5
12.124500	---	17.29	50.00	32.71	1000.0	9.000	L1	19.7
14.559000	---	18.84	50.00	31.16	1000.0	9.000	L1	19.7
15.756000	27.37	---	60.00	32.63	1000.0	9.000	L1	19.8

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

Product Type : Consumer Camera
 M/N : IPC-S2XEN-8M0S
 Operating Condition : Transmit mode, 802.11g Tx_2412MHz (worst case)
 Test Specification : N-line
 Comment : 120V~, 60Hz



Final Result

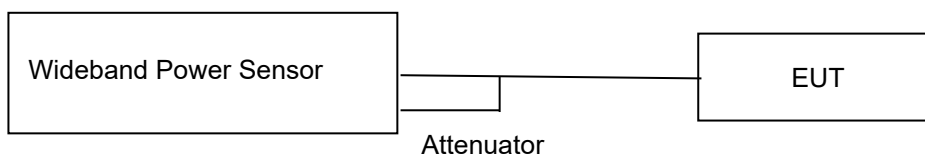
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.316500	---	14.02	49.80	35.78	1000.0	9.000	N	19.4
0.357000	26.53	---	58.80	32.27	1000.0	9.000	N	19.4
0.442500	---	24.99	47.01	22.02	1000.0	9.000	N	19.5
0.442500	36.42	---	57.01	20.59	1000.0	9.000	N	19.5
0.897000	21.23	---	56.00	34.77	1000.0	9.000	N	19.4
0.964500	---	13.18	46.00	32.82	1000.0	9.000	N	19.4
3.651000	17.82	---	56.00	38.18	1000.0	9.000	N	19.4
4.245000	---	13.86	46.00	32.14	1000.0	9.000	N	19.5
5.208000	---	13.42	50.00	36.58	1000.0	9.000	N	19.5
12.201000	22.25	---	60.00	37.75	1000.0	9.000	N	19.7
17.025000	24.29	---	60.00	35.71	1000.0	9.000	N	19.8
20.760000	---	17.89	50.00	32.11	1000.0	9.000	N	19.9

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

10.2 Conducted peak output power

Test Method

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 4) Measure the peak power of the transmitter. This measurement is a peak over both the ON and OFF periods of the transmitter.



Wideband Power Sensor conducted test setup

Limits

According to §15.247 (b) (3), conducted peak output power limit as below:

	Frequency Range	Limit	Limit
	MHz	W	dBm
Conducted peak output power	2400-2483.5	≤1	≤30

Test result (conducted peak) as below table

B mode

Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
	Result	limit	Verdict
2412MHz	17.49	≤30	Pass
2437MHz	17.25	≤30	Pass
2462MHz	17.12	≤30	Pass

G mode

Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
	Result	limit	Verdict
2412MHz	25.11	≤30	Pass
2437MHz	25.03	≤30	Pass
2462MHz	24.98	≤30	Pass



N20 mode

Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
	Result	limit	Verdict
2412MHz	24.59	≤30	Pass
2437MHz	24.46	≤30	Pass
2462MHz	24.43	≤30	Pass

N40 mode

Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
	Result	limit	Verdict
2422MHz	24.04	≤30	Pass
2437MHz	23.92	≤30	Pass
2452MHz	23.75	≤30	Pass

AX20 mode

Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
	Result	limit	Verdict
2412MHz	24.06	≤30	Pass
2437MHz	23.86	≤30	Pass
2462MHz	23.77	≤30	Pass

AX40 mode

Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
	Result	limit	Verdict
2422MHz	23.76	≤30	Pass
2437MHz	23.51	≤30	Pass
2452MHz	23.5	≤30	Pass

10.3 6dB bandwidth

Test Method for 6 dB Bandwidth

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. RBW=1% to 5% of the occupied bandwidth but not less than 100kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
5. Use the automatic bandwidth measurement capability of an instrument, use the X dB bandwidth mode with X set to 6 dB.
6. Allow the trace to stabilize, record the 6 dB Bandwidth value.

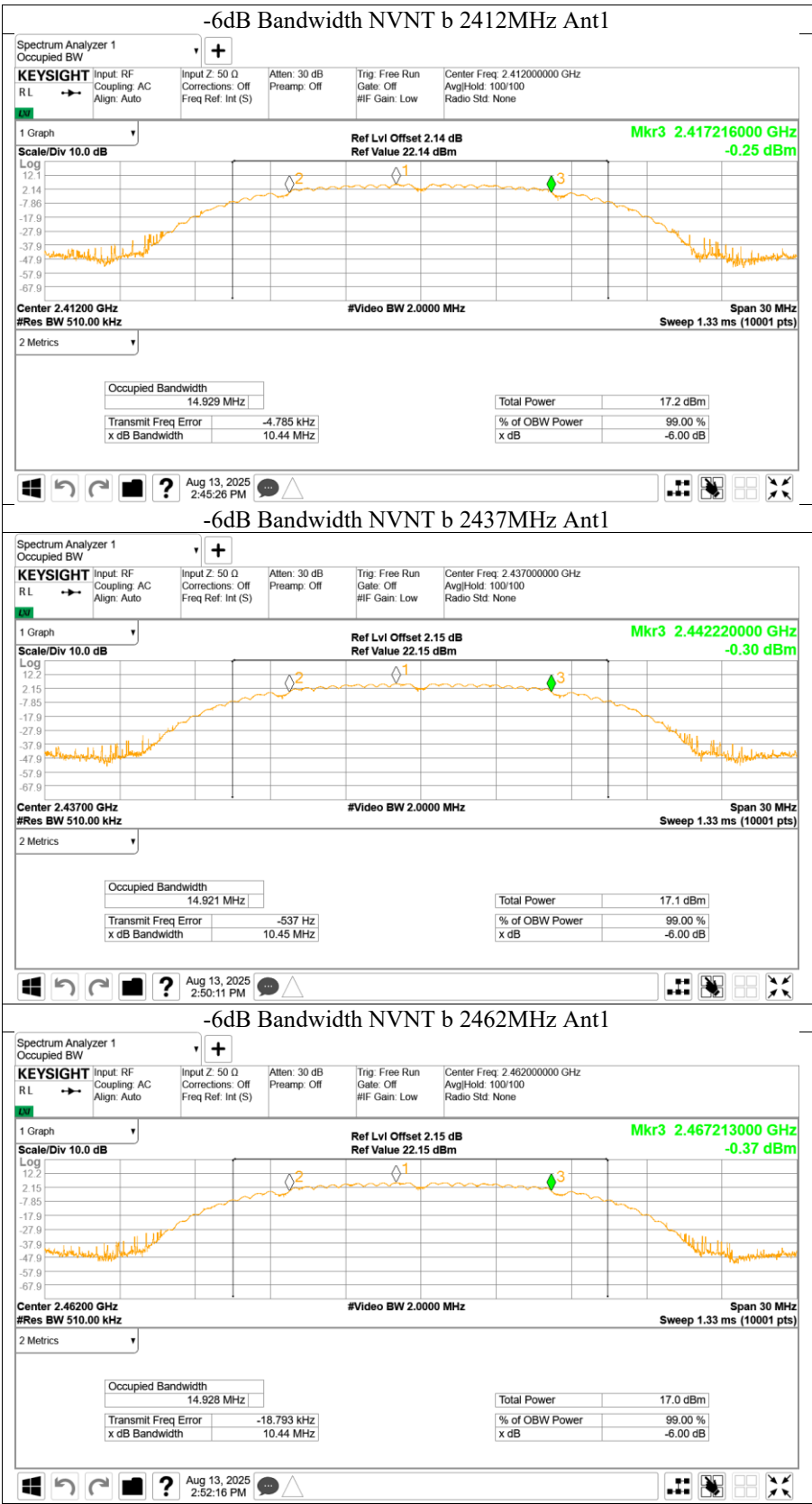
Limit

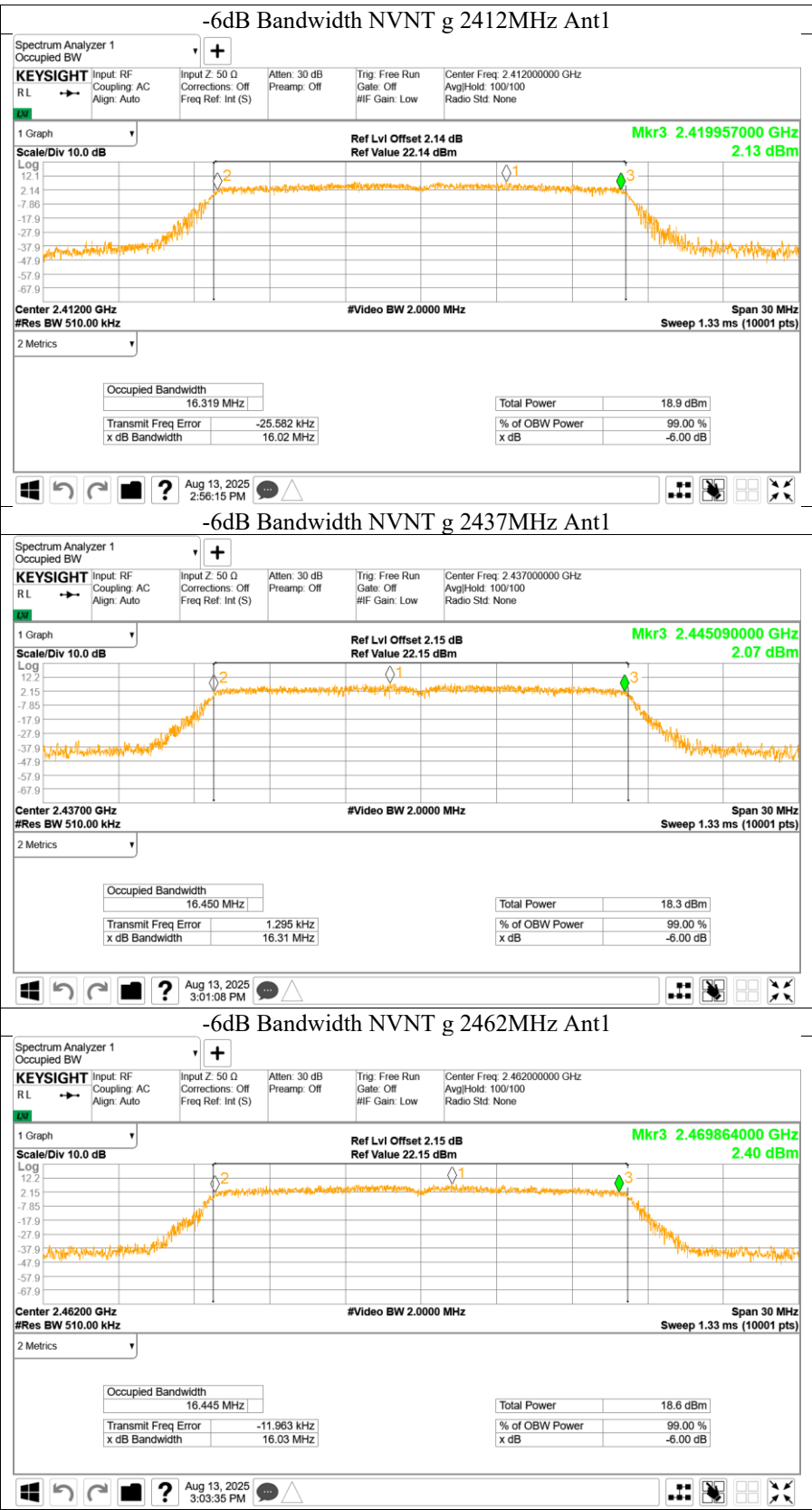
6dB bandwidth Limit [kHz]

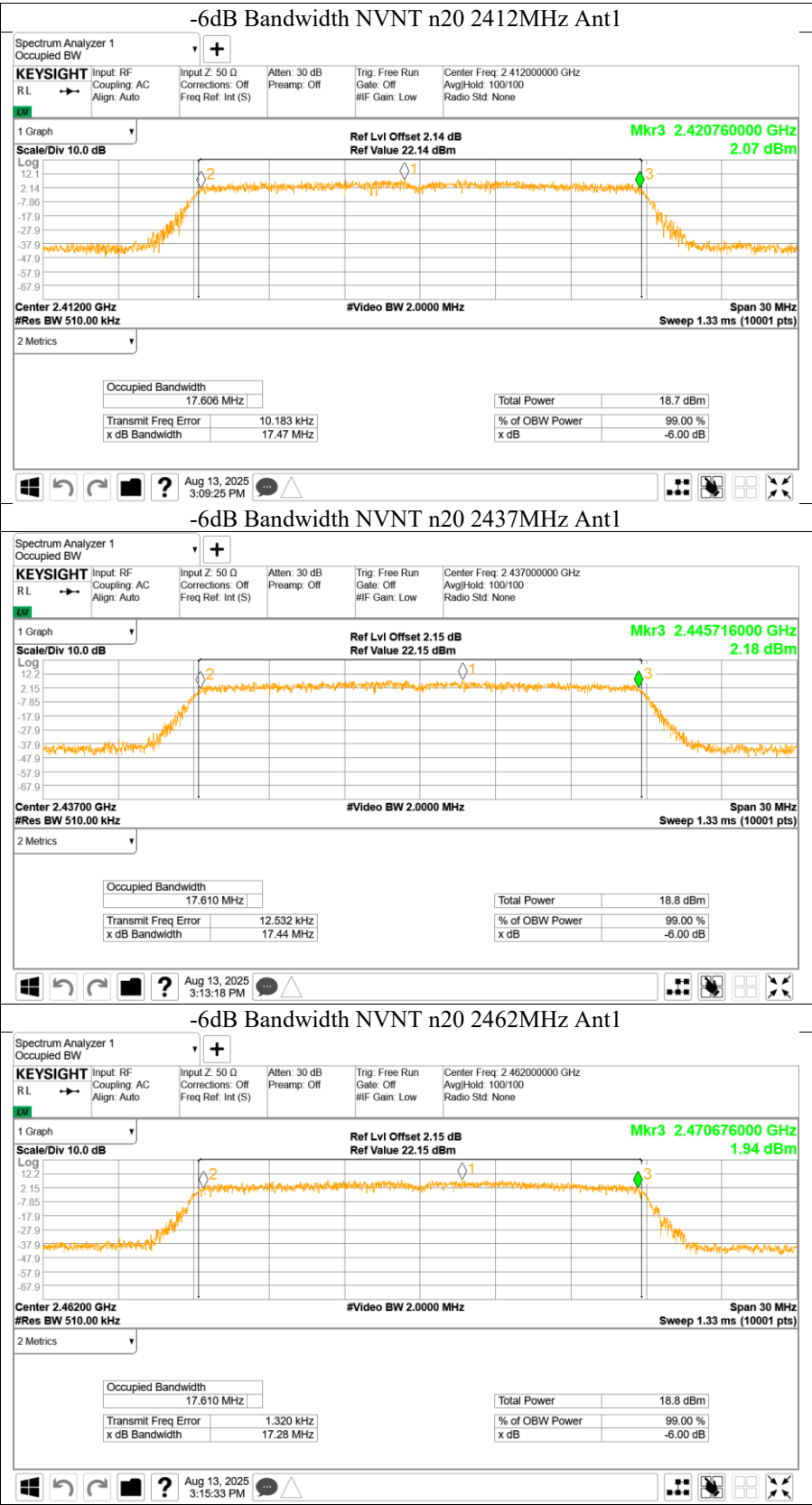
≥ 500

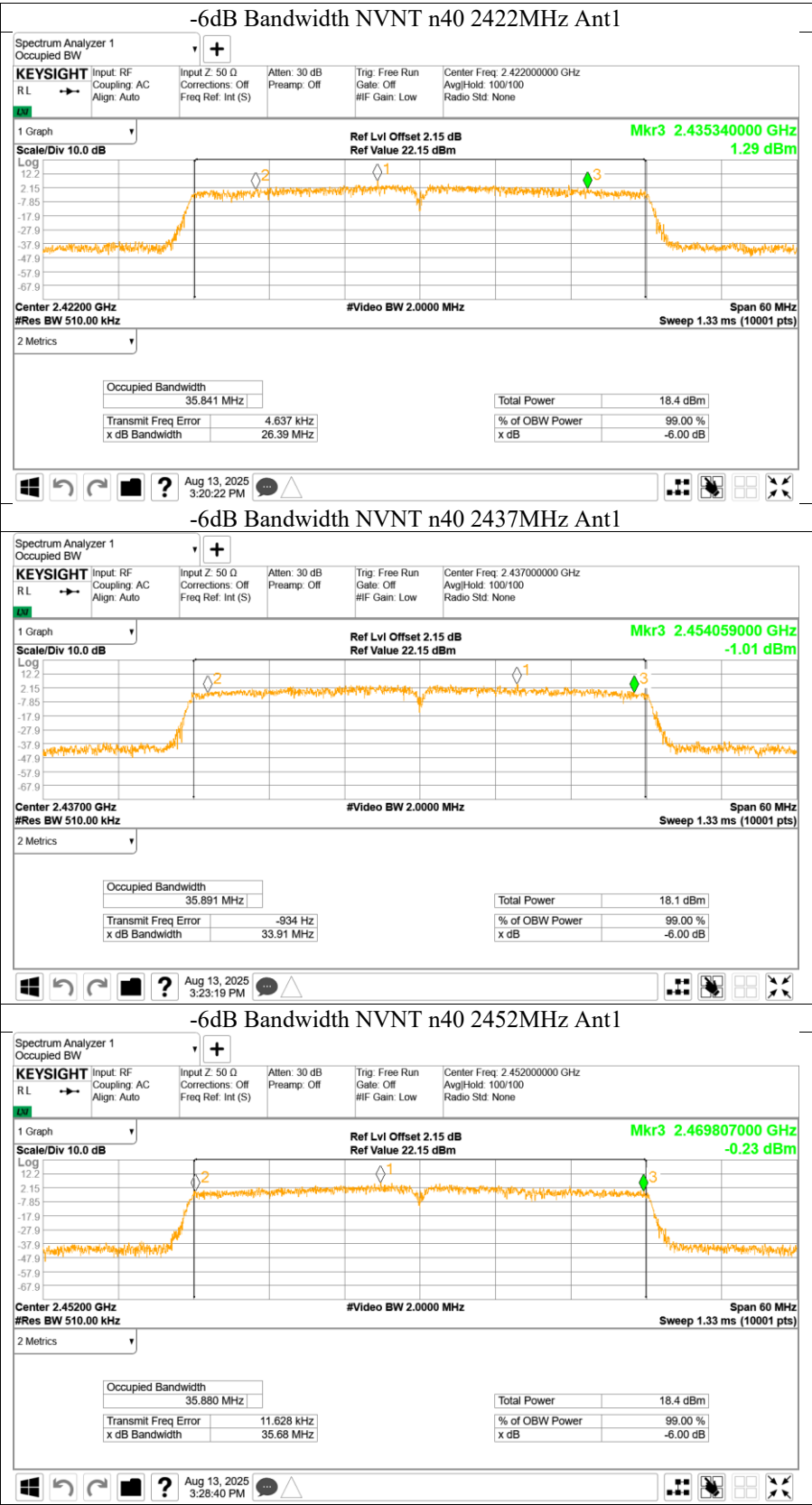
Test Result

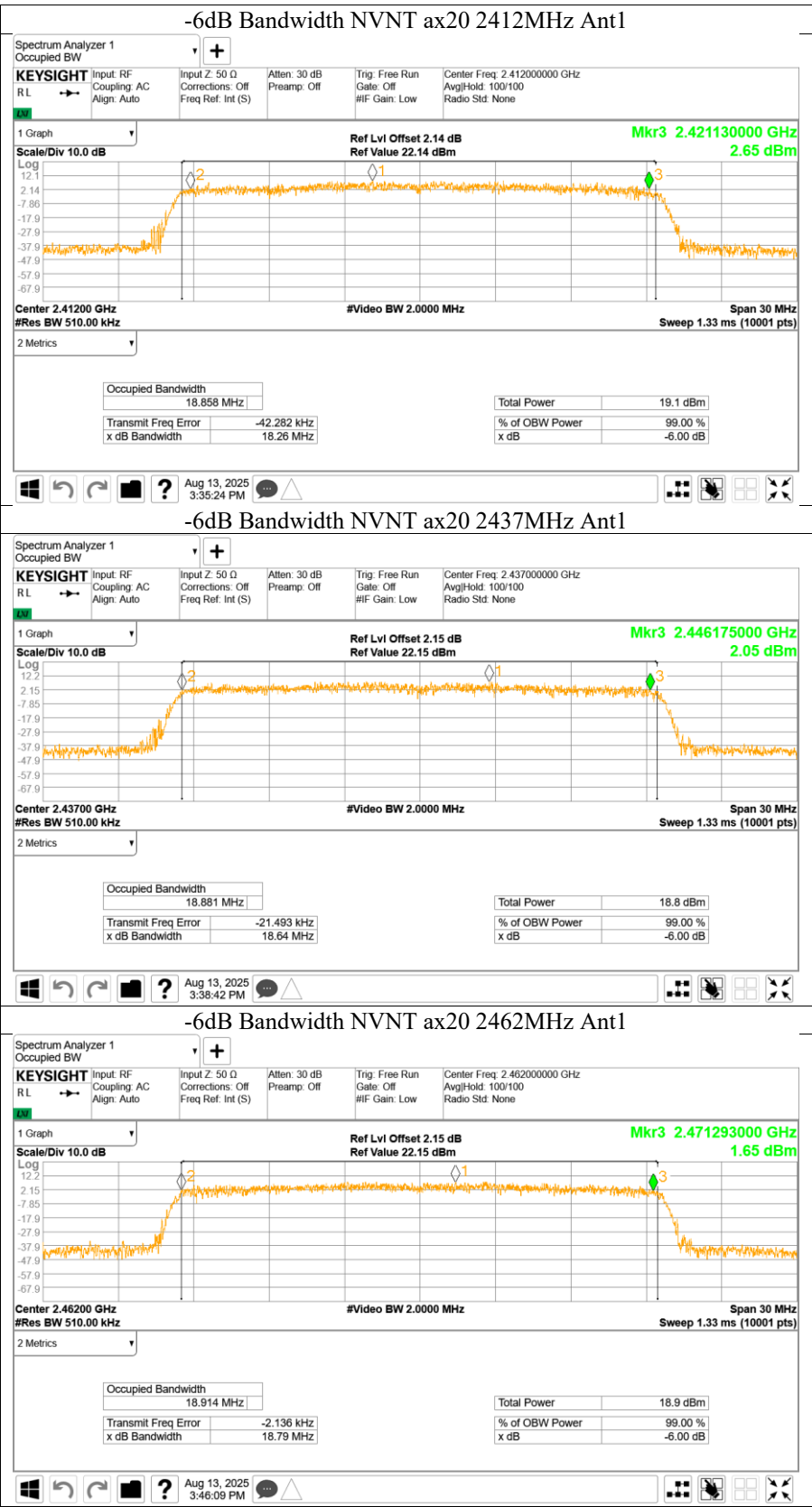
Test Mode	Frequency MHz	6dB bandwidth (MHz)		Result
		result	limit	verdict
802.11b	2412	10.44	≥ 0.5	Pass
	2437	10.447	≥ 0.5	Pass
	2462	10.443	≥ 0.5	Pass
802.11g	2412	16.022	≥ 0.5	Pass
	2437	16.311	≥ 0.5	Pass
	2462	16.026	≥ 0.5	Pass
802.11n(HT20)	2412	17.474	≥ 0.5	Pass
	2437	17.436	≥ 0.5	Pass
	2462	17.278	≥ 0.5	Pass
802.11n(HT40)	2422	26.395	≥ 0.5	Pass
	2437	33.914	≥ 0.5	Pass
	2452	35.679	≥ 0.5	Pass
802.11ax(HE20)	2412	18.263	≥ 0.5	Pass
	2437	18.64	≥ 0.5	Pass
	2462	18.786	≥ 0.5	Pass
802.11ax(HE40)	2422	37.634	≥ 0.5	Pass
	2437	36.868	≥ 0.5	Pass
	2452	35.977	≥ 0.5	Pass

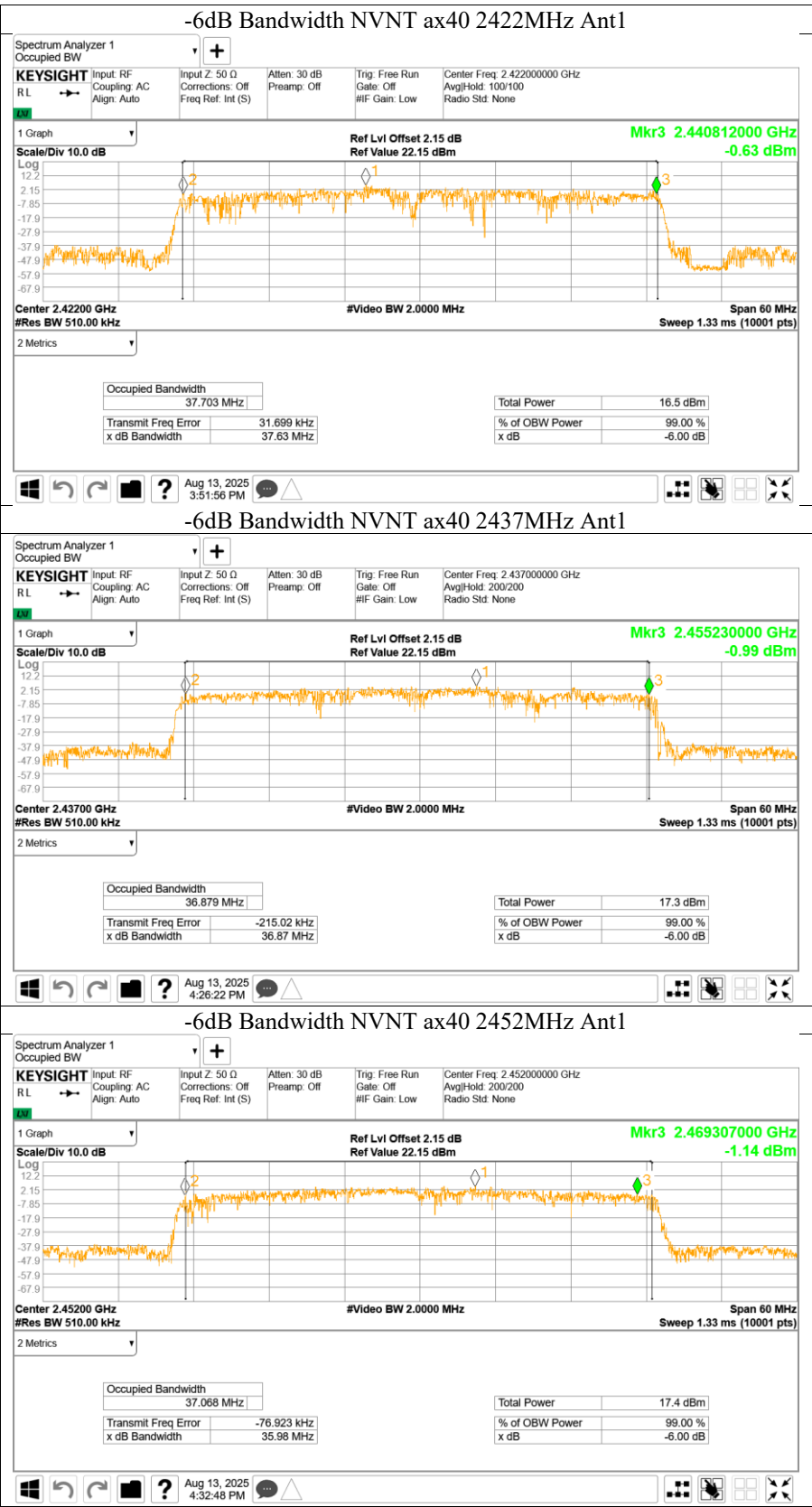














10.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm/3KHz]
 ≤ 8

Test result
802.11 B

Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2412MHz	-11.2	Pass
Middle channel 2437MHz	-11.44	Pass
High channel 2462MHz	-11.74	Pass

802.11 G

Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2412MHz	-10.96	Pass
Middle channel 2437MHz	-10.84	Pass
High channel 2462MHz	-11.18	Pass

802.11 N20

Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2412MHz	-12.24	Pass
Middle channel 2437MHz	-12.41	Pass
High channel 2462MHz	-12.87	Pass



802.11 N40

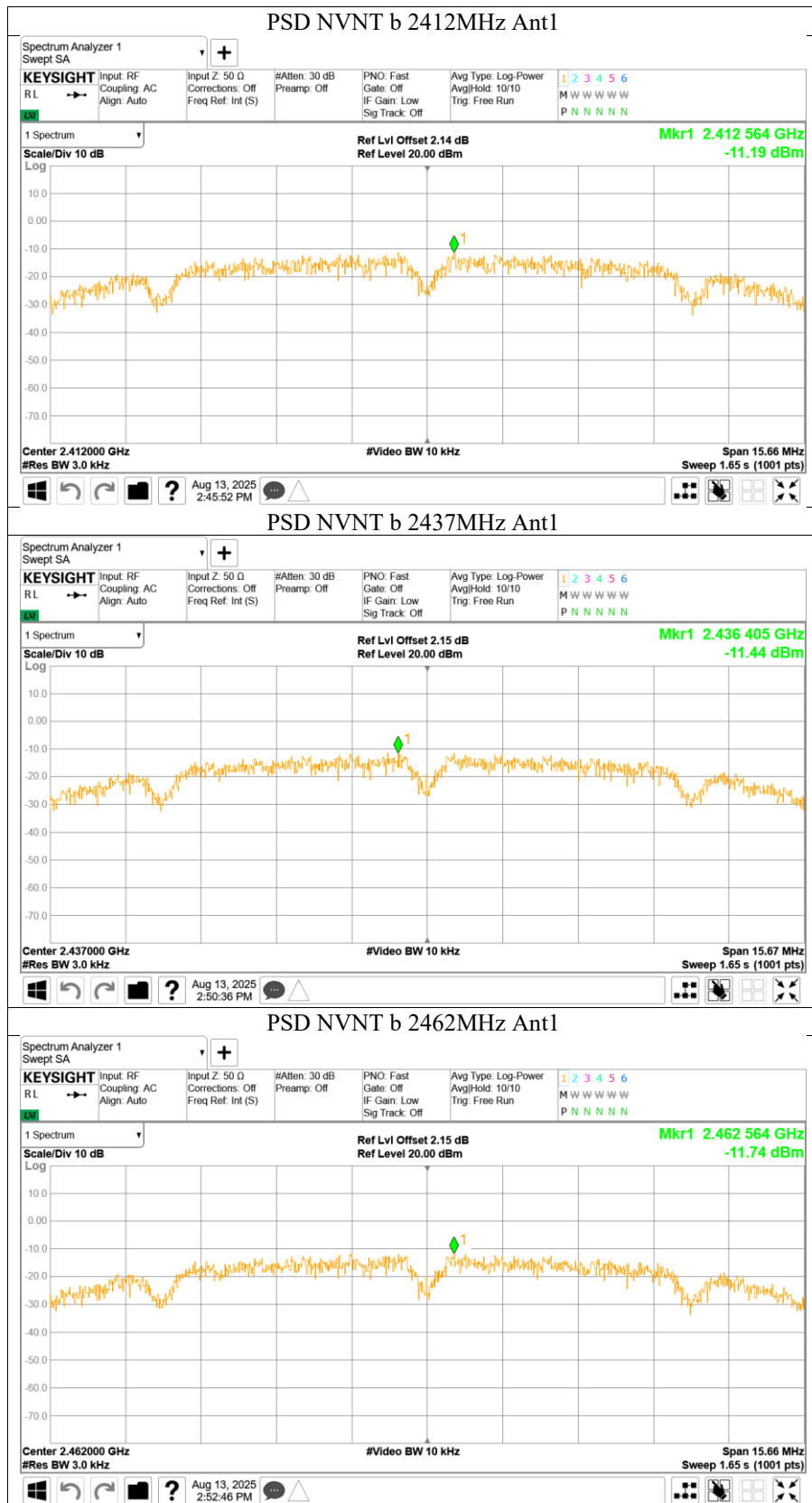
Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2422MHz	-13.64	Pass
Middle channel 2437MHz	-14.02	Pass
High channel 2452MHz	-13.79	Pass

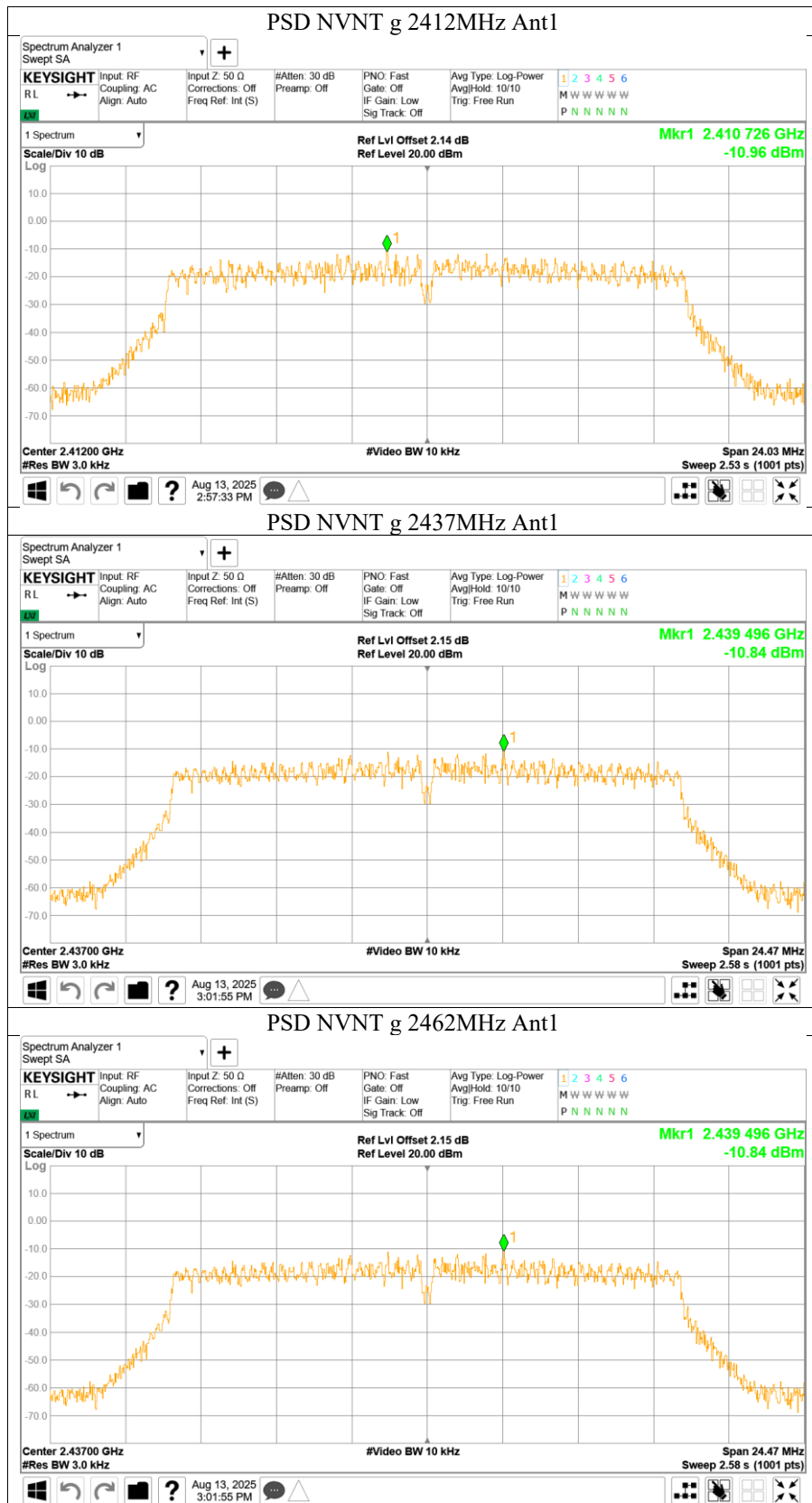
802.11 ax20

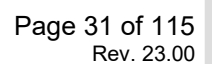
Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2412MHz	-11.75	Pass
Middle channel 2437MHz	-12.06	Pass
High channel 2462MHz	-12.02	Pass

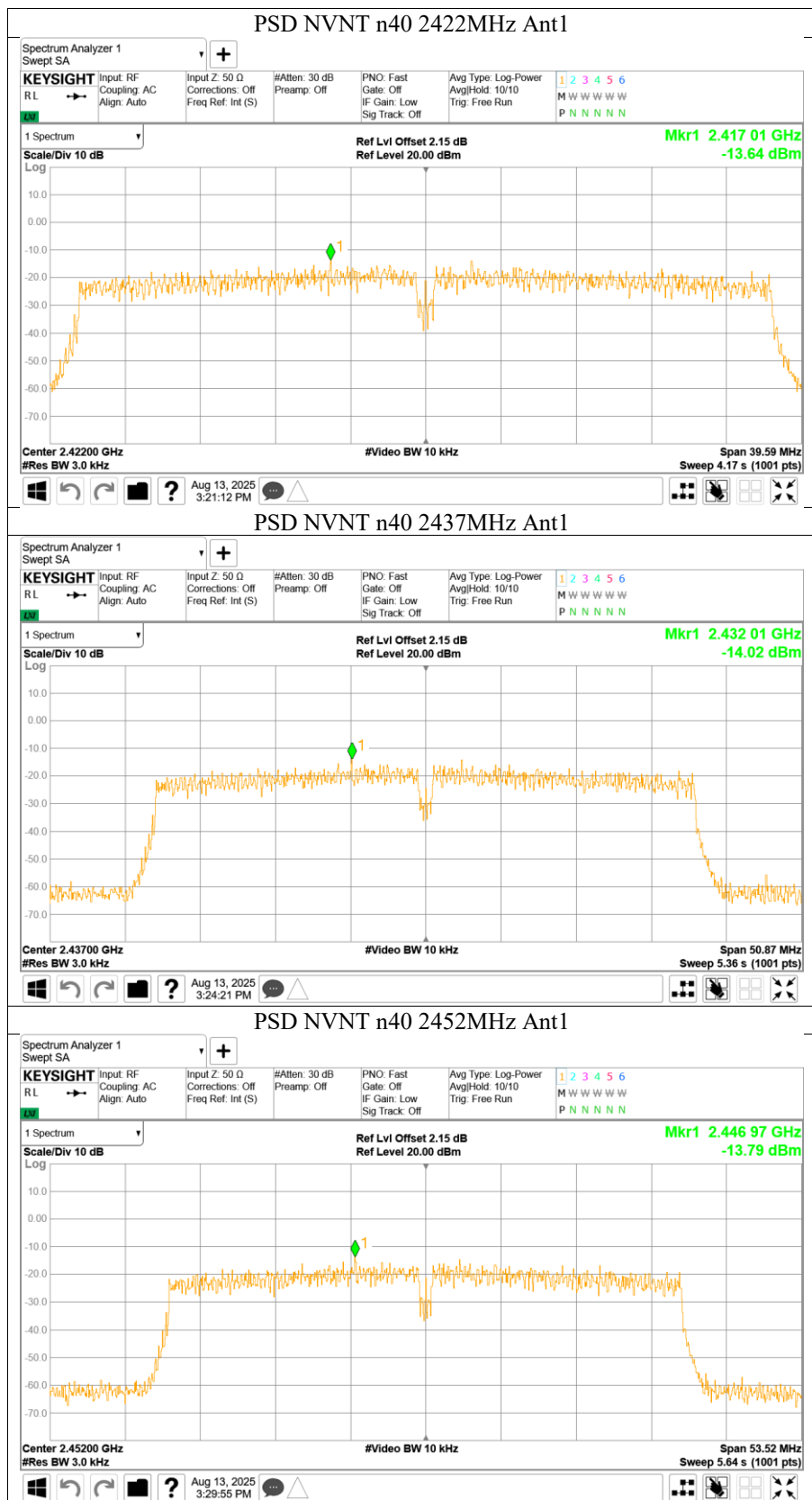
802.11 ax40

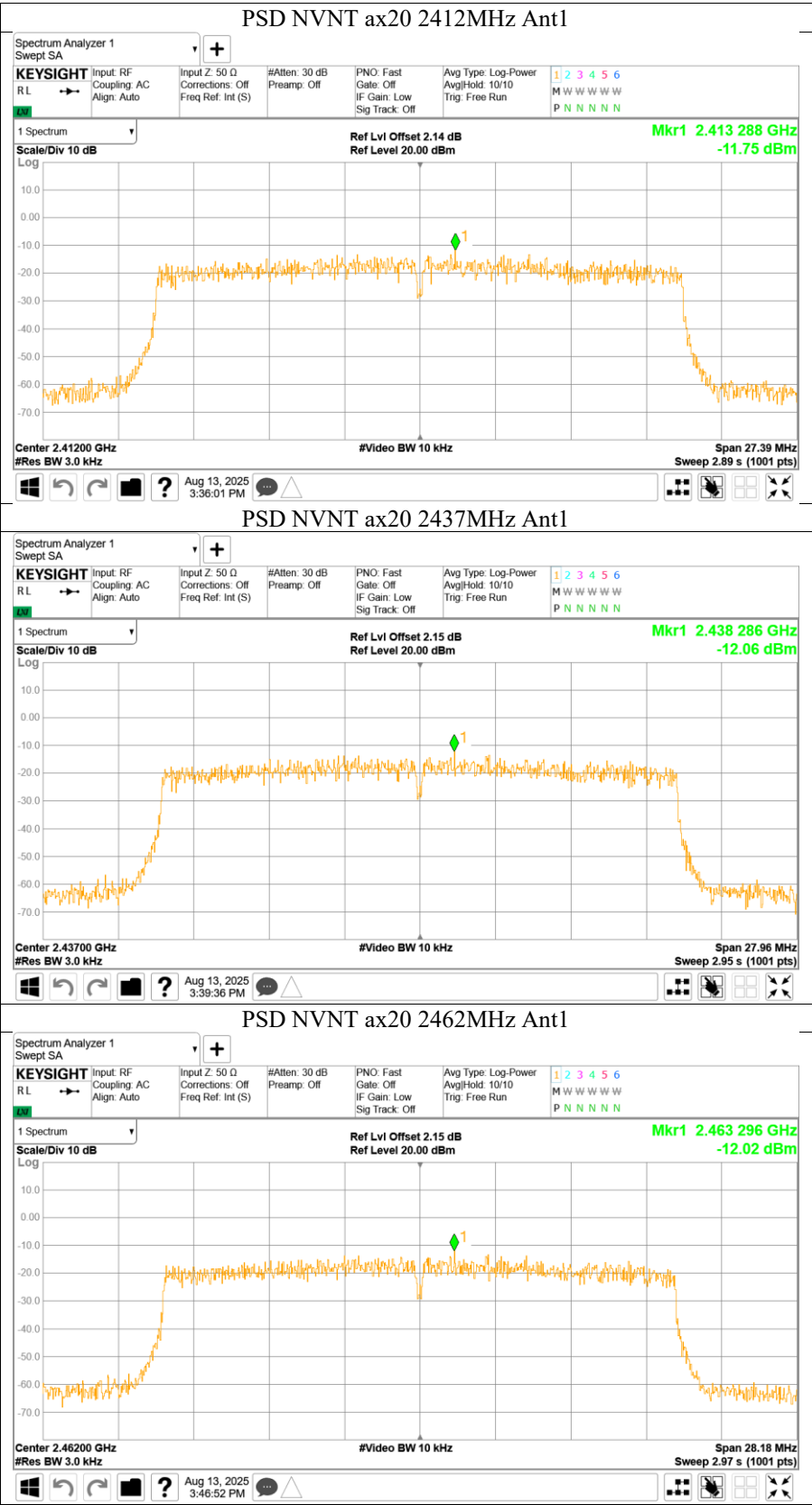
Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2422MHz	-17.31	Pass
Middle channel 2437MHz	-17.55	Pass
High channel 2452MHz	-17.43	Pass

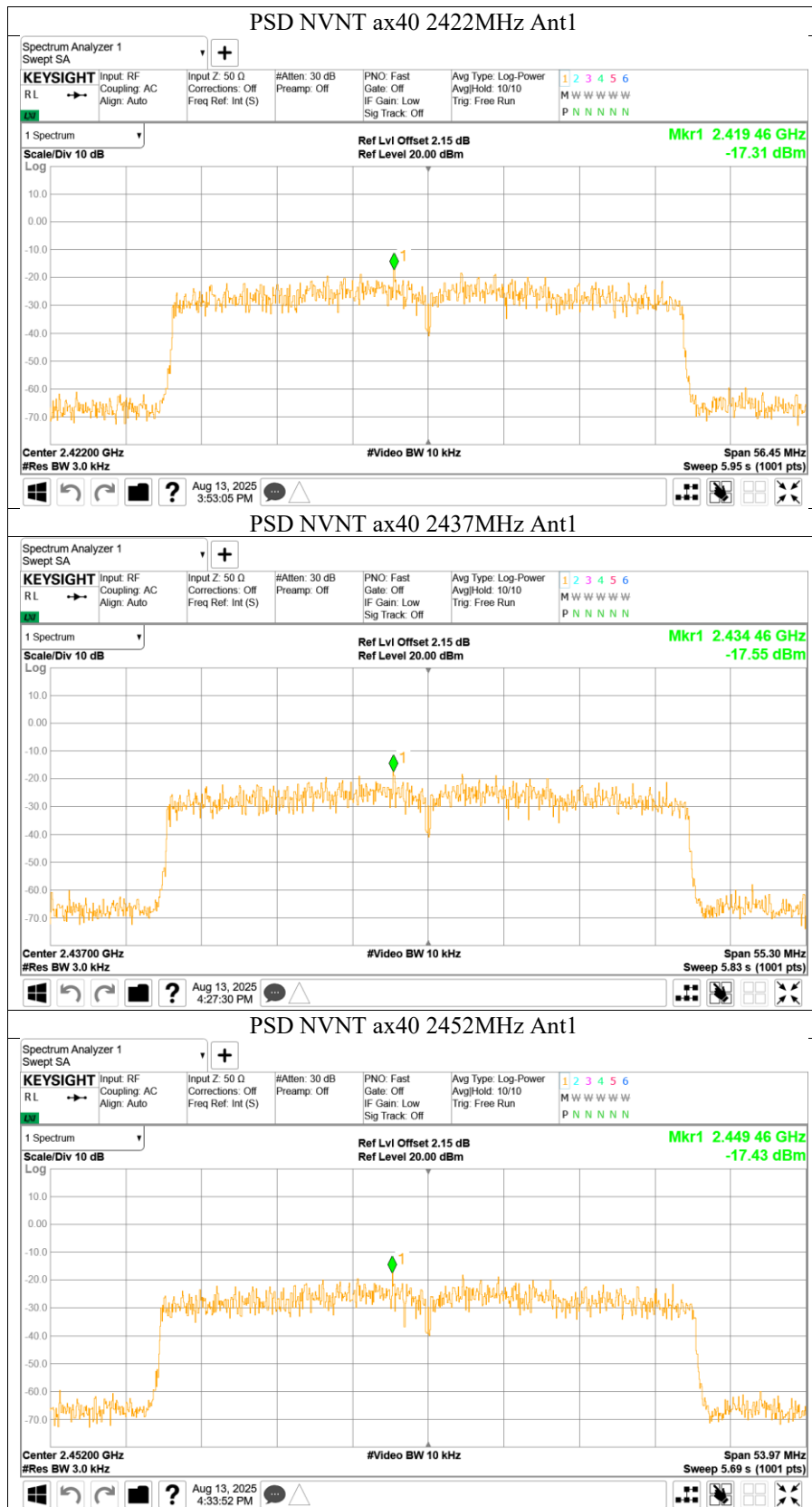














10.5 Spurious RF conducted emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

